

Commission on the Weather, Water, and Climate Enterprise (CWWCE) Report 5 July 2017

William P. Mahoney, Commissioner
Mary M. Glackin, Past Commissioner
Pam Emch, Future Commissioner

Introduction

Section A of this report provides highlights of current CWWCE activities and others planned for the rest of 2017. Section B includes information that supports requests for Council action.

Additional information about the CWWCE can be found on the [Commission](#) web site.

Section A – CWWCE Highlights

Commission Membership

Membership across the CWWCE boards and committees continues to evolve and changes are being reflected in updates to the CWWCE web pages and the corresponding AMS membership database. A 2017 CWWCE organization chart is provided in Attachment A for reference.

Forums and Symposia Held or Planned for 2017 and 2018

The following major activities have already been conducted or are being planned for 2017 and 2018. Additional activities are described on the CWWCE Board and Committee webpages. Appendix B highlights CWWCE meetings and events including Town Halls and Side Panels held at the 2017 Annual meeting. A similar suite of events is anticipated for 2018.

- **[Fifth Symposium on the Weather, Water, and Climate Enterprise](#)**, January 24-26, 2017, Seattle, Washington. The Fifth Symposium was organized by the BEST (Chair, Sheldon Drobot). The Sixth Symposium is being planned for Austin, Texas and will hit topics such as, smart cities and weather, dawn of a new era in satellite data, international meteorological and hydro-meteorological activities, effective communication of weather and climate information, and nationwide network of networks issues and concerns. The Sixth Symposium (6CWWCE) is being planned for Austin, Texas and aligned with the communication theme. A description is provided in the BEST report below.
- **[Eighth Conference on Weather, Climate, Water and the New Energy Economy](#)**, January 23-27, 2017, Seattle, Washington. This conference was organized by the Energy Committee (Co-Chairs Brian D’Agostino and Lawrence Gloeckler), and Renewable Energy Committee (Chair, Justin Sharp), which are under the BGS (Chair, Stephen Zebiak). The **[Ninth Conference](#)** is being planned for Austin, Texas, and will align with the communication theme.

- [AMS Washington Forum \(AWF\)](#). May 2nd to 4th, 2017, Washington, D.C. The Forum theme was, “Evolving our Enterprise: Working Together with the New Administration in a New Collaborative Era”. It was organized by the AWF Planning Committee, chaired by Tom Fahy, and BEED Chair, Heidi Centola and several CWWCE members and committees supported the event. The CWWCE Steering Committee met on 1 May, the evening before the AWF. The event was very successful and was attended by more than 165 persons. Additional information is provided in the BEED report below. Planning has begun for the 2018 AWF.
- [Summer Community Meeting \(SCM\)](#). August 2nd to 3rd, 2017, Madison, Wisconsin. The theme is “Maximizing the Value Chain across the Weather, Water, & Climate Enterprise”. Organized by the BEC (Chair, Doug Hilderbrand) with several CWWCE members and committees supporting the event. The SCM follows the [NWS Partnership Meeting](#), which is being held on Tuesday, 1 August 2017. Planning has just begun for the 2018 SCM, which will likely be held at UCAR in Boulder, Colorado.

Special Committees

- [Ad Hoc Committee on Climate and Climate Change Consulting Certification \(“C6”\)](#). The C6 (Co-chaired by John Nielsen-Gammon and Joseph Chang) completed the information-gathering portion of its activities during the spring. The C6 was unable to identify a customer base that would eagerly seek out AMS members bearing a special Climate and Climate Change Consulting certification. At the same time, changes already underway with the CCM program will apparently make it an appropriate certification for persons with a meteorology background and climate change expertise. We intend to deliver our report and recommendations to the AMS Executive Committee in September 2017. At this point, it seems that the committee's recommendations will involve ensuring CCM question banks are suitable for expertise in climate and climate change, elevating the CCM program at the Society level among members and among customers, and closely tracking persons who receive a CCM with a climate change specialization in the next few years. If a sufficiently large pool and sufficient demand develop, the possibility of a separate certification can be considered, though such a need seems unlikely at this point.
- [Ad Hoc Committee on Radio Frequency Allocations](#). This committee (Chair, Jonathan Porter), has continued to be very focused on the Ligado FCC filing process related to sharing the 1676-1680 MHz band, which also contains the GOES downlink frequency. Members have been reviewing public filings for ex-parte briefings and have worked with weather enterprise partners to prepare responses. Renee Leduc Clarke reported in early June that an attorney representing Iridium contacted her about reaching out to the weather enterprise to sign a "Joint Ex Parte Letter" from all of the parties concerned about Ligado's ongoing discounting of concerns related to their proposed sharing of

spectrum, including 1675-1680 MHz. Iridium, the aviation community and our community have all expressed concerns in three different proceedings in the past 16+ months about Ligado's proposals for spectrum sharing. The letter was addressed to the Honorable Ajit Pai, Chairman, Federal Communications Commission, with copies to Mignon Clyburn and Michael O'Rielly. The joint letter was still working its way through the editing process at the time of writing this report.

Board and Committee Activities

The items below are committee and board updates and highlights, but do not cover the full complement of activities occurring within the CWWCE.

Board on Enterprise Strategic Topics (BEST) – Chair, Sheldon Drobot

Board Update. The BEST is moving ahead in planning the Sixth Symposium on the Weather, Water, and Climate Enterprise (6CWWCE) event and is further along this year than last year. The current 6CWWCE meeting grid is pasted below, with some additional notes:

1. Monday sessions will be led by the individual committees. If the “Eco Forecasting” decides to move forward we will likely split the third session between CSC and Eco.
2. Tuesday sessions in purple are Joint Themed Sessions we are hosting. Still early in development so not a lot of detail just yet.
3. The Public Private Partnership (PPP) will likely be joint with BGS, IFMS (Jack Hayes coordinating), and InterMET Asia. Sheldon Drobot is leading organization. We have tentative agreement from a World Bank official to kick it off, and looking to invite Petri or David Grimes for WMO perspective, + 2 others TBD.
4. The Wednesday sessions are community generated but we have shaded them red because we do not currently have room allocations in 6CWWCE for them. I’m not sure if more space can be found. Otherwise, the sessions will have to move to posters.

Preliminary Program Layout for the AMS 2018 Annual Meeting											
Monday, 8 January			Tuesday, 9 January			Wednesday, 10 January			Thursday, 11 January		
Special Session	Conference		Special Session	Conference		Special Session	Conference		Special Sessions	Conference	
Welcoming Remarks Video			Themed Joint Session	Webster Symp	Development and communication of next-generation satellite information for forecasting extreme weather	Themed Joint Session		Verification and Validation on the Subseasonal to Seasonal Time Scale to support the National Earth System Prediction Capability	Themed Joint Session	Raymond Symp	1
Themed Joint Session	Ryan Symp	Emergency Management Sessions	Themed Joint Session	Webster Symp	Development and communication of next-generation satellite information for forecasting extreme weather	Themed Joint Session		Verification and Validation on the Subseasonal to Seasonal Time Scale to support the National Earth System Prediction Capability	Themed Joint Session	Raymond Symp	2
Themed Joint Session	Ryan Symp	Emergency Management Sessions	Themed Joint Session	Webster Symp	Development and communication of next-generation satellite information for forecasting extreme weather	Themed Joint Session		Verification and Validation on the Subseasonal to Seasonal Time Scale to support the National Earth System Prediction Capability	Themed Joint Session	Raymond Symp	3
Themed Joint Session	Ryan Symp	Emergency Management Sessions	Themed Joint Session	Webster Symp	Development and communication of next-generation satellite information for forecasting extreme weather	Themed Joint Session		Verification and Validation on the Subseasonal to Seasonal Time Scale to support the National Earth System Prediction Capability	Themed Joint Session	Raymond Symp	4
Coffee Break			Coffee Break			Coffee Break			Exhibit Hall Breakfast		
Themed Joint Session	Ryan Symp	NNoN Sessions	Themed Joint Session	Webster Symp	PPP for NMHS Modernization	Themed Joint Session		The Role of Atmospheric Rivers in Weather, Water and Climate Enterprise	Themed Joint Session	Raymond Symp	1
Themed Joint Session	Ryan Symp	NNoN Sessions	Themed Joint Session	Webster Symp	PPP for NMHS Modernization	Themed Joint Session		The Role of Atmospheric Rivers in Weather, Water and Climate Enterprise	Themed Joint Session	Raymond Symp	2
Themed Joint Session	Ryan Symp	NNoN Sessions	Themed Joint Session	Webster Symp	PPP for NMHS Modernization	Themed Joint Session		The Role of Atmospheric Rivers in Weather, Water and Climate Enterprise	Themed Joint Session	Raymond Symp	3
Themed Joint Session	Ryan Symp	NNoN Sessions	Themed Joint Session	Webster Symp	PPP for NMHS Modernization	Themed Joint Session		The Role of Atmospheric Rivers in Weather, Water and Climate Enterprise	Themed Joint Session	Raymond Symp	4
Lunch Break			Lunch Break			Lunch Break			Lunch Break / Raymond Symp Luncheon		
Themed Joint Session	Ryan Symp	Climate Services Sessions	Themed Joint Session	Webster Symp	Development and communication of high-resolution, ensemble forecast information for forecasting extreme weather	Themed Joint Session		Future of Weather Forecasts and Warnings: 2030 Vision	Themed Joint Session	Raymond Symp	5
Themed Joint Session	Ryan Symp	Climate Services Sessions	Themed Joint Session	Webster Symp	Development and communication of high-resolution, ensemble forecast information for forecasting extreme weather	Themed Joint Session		Future of Weather Forecasts and Warnings: 2030 Vision	Themed Joint Session	Raymond Symp	6
Themed Joint Session	Ryan Symp	Climate Services Sessions	Themed Joint Session	Webster Symp	Development and communication of high-resolution, ensemble forecast information for forecasting extreme weather	Themed Joint Session		Future of Weather Forecasts and Warnings: 2030 Vision	Themed Joint Session	Raymond Symp	1
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Formal Poster Viewing with Coffee Break**			Formal Poster Viewing with Coffee Break**			Formal Poster Viewing with Coffee Break**			Coffee Break		
Formal Poster Viewing with Coffee Break**			Formal Poster Viewing with Coffee Break**			Formal Poster Viewing with Coffee Break**			Themed Joint Session	Raymond Symp	5
Formal Poster Viewing with Coffee Break**			Formal Poster Viewing with Coffee Break**			Formal Poster Viewing with Coffee Break**			Themed Joint Session	Raymond Symp	6
Sessions End / Recep & Exhibits Opening / Option for Named Symp Luncheon or Banquet			Sessions End for the Day / Webster Symp Banquet			Sessions End / Reception followed by Banquet			98th AMS Annual Meeting Adjourns		

- **Networks of Networks Committee (NNoN)**. The NNoN (Chair, John Horel) is sponsoring a new webinar series related to best practices for boundary layer observing systems. The first one was held on April 26, 2017 was very successful with nearly 100 people registered and online attendance of over 60 people. Dr. Jerry Brotzge, Program Manager for the New York Mesonet provided the first webinar titled, “Installation of the NYS Mesonet – Lessons Learned and Deployment Strategies”. Two more webinars are planned for late summer and fall.
- **Committee on Climate Services (CCS)**. The CCS (Chair, Stephanie Herring) collaborated with NOAA's National Centers for Environmental Information (NCEI) to host “The Climate Resilient Grid, A Forum on Energy, Climate and the Grid”, held June 14-15 in Asheville, NC. The meeting included speakers from utility companies discussing how they are using climate data and information in their operations and decision making, as well as private climate service providers talking about how they use climate data to make value added products and services to support energy sector clients. The CCS is in the process of drafting an executive summary and proceedings paper, but this will take a few weeks since we need to get the approval of all our speakers before it can be released. The CCS will discuss follow up actions at our next meeting, but tentative plans include a session at AMS and possibly the professional societies of other sectors (i.e., energy, planners, engineers, etc...).

- [Committee on Emergency Management \(CEM\)](#). The CEM (Chair, Tanja Fransen) hosted the two-part Integrated Warning Team sessions at the Student Conference at the 2017 Annual Meeting. The introduction was presented by NWS Spokane Warning Coordination Meteorologist Andy Brown and Clark County, WA Emergency Management Specialist Eric Frank, and the event had over 200 students attend. There also was an interactive exercise in which we had 16 mentors for 100 students in the fields of Emergency Management, Operational Meteorology/Decision Support and Media. We already have things in place for the 2018 Meeting in Austin, TX with local and committee resources/mentors committed and we are planning to invite local International Association of Emergency Management (IAEM) student chapters in the region to participate. Three committee members are contributing to the Large Event Venue writing committee for the AMS Statement on *Weather Safety at Large Venues*. The CEM worked on the planning for the Major Weather Impacts of 2016 session at the annual meeting, shared with the STAC/Board on Societal Impacts. The CEM is planning to hold a session in the BEST/Conference on Weather, Water and Climate Enterprise at the 2018 Annual meeting. We are also developing a list of projects that can be done by students during internships and to keep their resume's relevant.

[Board on Global Strategies \(BGS\) – Chair, Stephen Zebiak](#)

Board Update. Following efforts last year in promoting an integrated Climate Information System to support climate action (Opinion Paper in Nature Climate Change and Panel Session during the 2017 Enterprise Symposium), the Board has been exploring ideas for promoting good to best practices in the emerging field of climate and weather services. We have recently decided to focus our next efforts on the enabling of an effective workforce to tackle the challenges of climate information services - specifically, the preparation of students for careers in this arena. We are now working toward hosting a mini-symposium on this topic at the 2019 AMS Annual Meeting. It will engage businesses, NGOs, and government agencies who will employ future professionals, academic institutions developing relevant degree programs, and students pursuing careers in this field.

- [Energy Committee \(EC\)](#). The EC (Co-chairs, Brian D'Agostino and Lawrence Gloeckler) and the [Renewable Energy Committee \(REC\)](#) (Chair, Justin Sharp) are actively co-planning the “Ninth Conference on Weather, Climate, Water and the New Energy Economy” in Austin, Texas. The REC is developing a white paper focused on describing and discussing the current state of the nexus of meteorology and energy. Current tasks include organizing a Themed Joint Session that focuses on communications challenges in energy and utilities, and a Town Hall Meeting that features utilities organizations local to the Austin, TX region.

- **Water Resources Committee (WRC)**. The WRC (Chaired by Michael Dettinger) completed drafting and revisions of the Policy Statement on "[Water Resources: Water Resources in the 21st Century](#)," which was recently approved by the Council and is now published online. WRC members have developed, and are organizing, a closely tied pair of sessions at the American Geophysical Union (AGU) Fall Meeting ("Science to Action: Resilient Decision Making in the Midst of Uncertainty") and the AMS Annual Conference ("Resilient Business Decisions in the Midst of Weather and Climate Uncertainty"). Some WRC members (Dan Walker, Rolf Olsen, and Miguel Medina) are prominently involved in ongoing efforts by the American Society of Civil Engineers (ASCE) to develop a new Manual of Engineering Practice on Adaptive Infrastructure Design and Risk Management for Climate Resilience, and in organizing a recent ASCE workshop titled, "Engineering Methods for Precipitation under a Changing Climate". The WRC as a whole is preparing to provide (and assist in organizing) technical reviews of the coming Manual of Practice this fall.

Board on Enterprise Communication (BEC) – Chair, Doug Hilderbrand

- **Summer Community Meeting (SCM)**. August 2nd to 3rd, 2017, Madison, Wisconsin. The theme is "Maximizing the Value Chain across the Weather, Water, & Climate Enterprise". Organized by the BEC (Chair, Doug Hilderbrand) with several CWWCE members and committees supporting the event.
- **Committee on Effective Communication of Weather & Climate Information (CECWCI)**. The CECWCI (Co-chairs, Bob Ryan and Gina Eosco) is currently supporting the subcommittee on Naming winter Storms (see description below) and organizing a SCM session titled, "Communications/decision-making using remote sensing-based environmental intelligence", which will focus on environmental and climate-related satellite applications and the connection to decision making at the local and community levels. Committee chairs Ryan and Eosco worked some with BEC member Erica Grow to develop a unique webinar "Better Together: Creating a smarter forecast through collaboration across the broadcast industry" which was held on-line on June 7th. The webinar was well attended and the feedback was positive. The committee itself may consider communication themed webinars for all AMS sectors in the future. Chairs Ryan and Eosco also participated in the June 5 interactive workshop on Products and Services at NOAA CWCP on June 5th. Co-chair Ryan will be leading a panel discussion at the upcoming AMS SCM titled, "Communication/decision-making using remote sensing based environmental intelligence". A CECWCI conference call to bring all members up to date on the above activities will be scheduled later in 2017 with the next full committee meeting scheduled at the AMS Annual Meeting in Austin.
- **Ad Hoc Committee on Naming Winter Storms**. This sub-committee of the CECWCI (Co-Chairs Gary Szatkowski and Adam Raineart) was formed in the late winter and has been

active in gathering information and feedback. In June, Tom Niziol, Weather Channel, made a presentation on the history and the process of naming winter storms at the Weather Channel. A review and discussion of the processes used in the UK has also occurred.

- **Forecast Improvement Group (FIG)**. The FIG (Chair, Neil Jacobs) is discussing several topics such as numerical weather prediction model dynamic cores, high-resolution ensembles, new observing systems that will support weather modeling, and others, but most of the technical discussion are on hold because of the lack of information about the new NOAA administration and a proposed budget that zeros out many of these programs. Once a new NOAA administrator is named, and the FIG gets some clarity on the proposed new direction of NWS, we'll have a better idea of what topics makes sense to address. That said, there is consensus that exploring public-private-academic partnerships and business models that improve the forecast process by harnessing innovation and fast-tracking research (research-to-operations) in the areas of modeling, observations, and computing is worth doing. There will be a FIG organized event (during the banquet) at the SCM to get this conversation started. The event is titled, "Forecast Improvement Group (FIG) Evening Session: Enterprise Discussion on Future of Foundational Weather Data and Enterprise Strategic Roadmap".

Board on Enterprise Economic Development (BEED) - Chair Heidi Centola

- **AMS Washington Forum (AWF)**. The BEED and AWF Planning committee successfully held the AWF from May 2-4, 2017 in Washington, D.C – second largest attendance this year. The 2017 AWF theme was "*Evolving our Enterprise: Working Together with the New Administration in a New Collaborative Era*". A post-review discussion was conducted on June 28th, 2017. The BEED Planning committee is now actively discussing the planning for the 2018 event, which is tentatively scheduled for April 2018 at the AAAS Building. A kickoff call for the 2018 event will be conducted late July 2018. The theme will be discussed as well as session ideas.
- **Weather Enterprise Economic Evaluation Team (WEEET)**. The WEEET (Chair, Scott Rayder) has been unable to raise funds and under the recommendation of Scott that the committee be suspended or discontinued. This action will be discussed with CWWCE leadership and subsequently with the Council in September.
- **Financial Weather Risk Management (FWRM) Committee**. The FWRM committee (Chair, Tom Duncan) continues to be actively engaged in providing communication and education of weather risk in the community. The committee collaborated with the Energy Committee on a Town Hall meeting at the 2017 AMS Annual Meeting as well as participated in the AWF. To this end, we are pursuing an active involvement in the 2018 AMS Annual Meeting and joint session as part of 9Energy conference is being planned. The FWRM is coordinating this effort to reach out to university AMS Chapters and

weather/meteorology departments to provide information sessions on our committee's activities. While Maximilian Vido is leading this, the entire committee is engaged in contacting universities. He has put on two such sessions and is planning several more this fall. In efforts to support our longer-term goals, we are looking to broaden our efforts on communicating and educating smaller entities on weather risk management through a series of webinars on weather risk topics – one session is complete and another is planned for Q3 2017. We are making efforts to regularly post to our Twitter messages to educate the broader audience about weather risk management by leveraging interesting articles as well as highlighting activities/events.

- **[Intelligent Transportation & Surface Transportation \(ITS/ST\) Committee](#)**. The ITS/ST committee (Chair, Brenda Boyce) participated in the 2017 AMS Annual Meeting by conducting a Town Hall Meeting focused on, “A National Strategy for Transportation Data”, which was led by the USDOT ITS Joint Program Office (Ariel Gold). The committee also participated in a session at the 2017 AWF entitled, “Weather Savvy Roads; Autonomous and Connected Vehicles in Smart Cities”. The committee will continue to explore weather and road condition needs for autonomous vehicles.
- **[Committee on Open Environmental Information Systems \(COEIS\)](#)**. The committee on COEIS (Chair, Ricky Rood) has been discussing several challenges associated with changing technology including the decentralization of data sources, and the growing complexity of the public-private ownership of data. Continued access to weather and climate data need to be provided in this evolving environment. The COEIS plans to position itself to assure that the Society represents the interests of the Weather, Water, and Climate Enterprise in the development of community data exchange standards, services, and protocols.

Policy Statement Refresh

- The Policy Statement titled “*On the Infrastructure Supporting Weather, Water, Environmental, and Climate Sciences, Services, and Assessments*” was adopted by AMS Council on 1 October 2009 and expired on October 2012. A Statement Writing Committee kicked off by the CWWCE and chaired by Cory Springer is moving the statement update process forward.

Section B – Requests for Council Action

CWWCE Steering Committee Membership

There are two openings on the CWWCE Steering Committee. One slot is for the “user” community and the second is an “at large” slot to ensure diversity per the terms of reference (below). This document presents two candidates for the two slots.

Per the AMS Operational Procedures

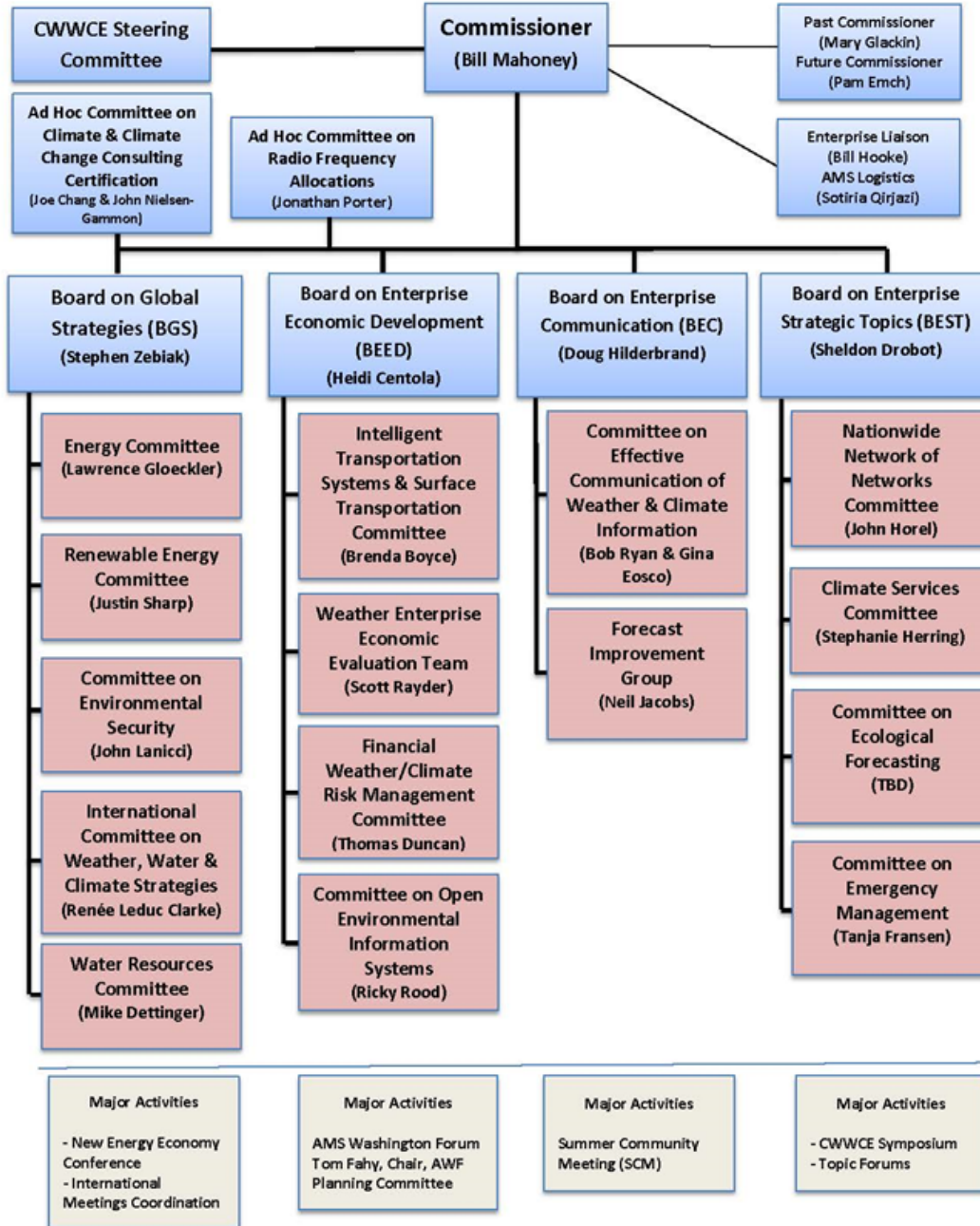
Commission Steering Committee (CSC): Chaired by the Commissioner and consisting of leaders from the weather, water, and climate enterprise community. Voting members include the members of the CEC, plus 15 leaders from the community. The 15 community, voting members serve three-year terms, which may be renewed for additional terms and shall be staggered to allow approximately 1/3 membership change each year. The 15 community, voting members shall consist of (a) six senior members from the provider community including the Director, NOAA/National Weather Service; the President, American Weather and Climate Industry Association; and the President, National Council of Industrial Meteorologists; (b) five senior members from the user community; (c) three members-at-large selected to ensure balance and diversity, including the Executive Director, National Weather Association; and (d) at least one student member. The 15 community, voting members are nominated by the Commissioner in consultation with the CEC and are approved by the Council. Voting members are expected to be directly involved with Commission activities and to provide mentorship and guidance to Enterprise Boards, Committees, and members. The CSC also includes three non-voting, ex officio members: the Commissioners for Professional Affairs, STAC, and Education and Human Resources.

Candidates for Council Approval (go to the hyperlinks for bios)

[Redacted - The names of the candidates are confidential until approved by the Council]

APPENDIX A

2017 - AMS Commission on the Weather, Water, and Climate Enterprise



APPENDIX B

**Commission on the Weather, Water and Climate Enterprise (CWWCE)
AMS Annual Meeting, Seattle, WA
21-26 January 2017
CWWCE Related Meetings and Events**

Saturday, 21 January	Event	Location
8:30 AM ¹ (continental breakfast) 9:00 AM to 2:00 PM (meeting)	CWWCE Leadership Meeting	Willow Room, Sheraton Seattle
3:00 PM to 6:00 PM	CWWCE Steering Committee Meeting	Willow Room, Sheraton Seattle

Sunday, 22 January	Event	Location
8:00 AM to 1:00 PM	AMS Council Meeting (restricted)	
4:00 PM to 5:30 PM	AMS Business Meeting – 97 th Annual Review	4C-3/4 Convention Center
5:00 PM to 6:00 PM	BEC - Board on Enterprise Communication & FIG – Forecast Improvement Group	Kirkland Room, Sheraton Seattle

Monday - Thursday	Event	Location
See Conference Schedule	Eighth Conference on Weather, Climate, Water and the New Energy Economy	Room 606, Convention Center

Monday, 23 January	Event	Location
7:00 AM to 8:00 AM	CEM – Committee on Emergency Management	Redwood A Room, Sheraton Seattle
11:00 AM to 5:30 PM	Second Symposium of US-International Partnerships	Rooms vary between Yakima 2 and 611, Conference Center
12:00 PM to 1:30 PM	BEST – Board on Enterprise Strategic Topics	Ravenna B Room, Sheraton Hotel
12:00 PM to 1:00 PM	CECWCI – Committee on Effective Communication of Weather and Climate Information	Ravenna A Room, Sheraton Seattle
12:00 PM to 1:00 PM	EC - Energy Committee	Ravenna C Room, Sheraton
12:15 PM to 1:15 PM	Town Hall: Current Radio Frequency Challenges for the Weather, Water, and Climate Enterprise	Room 620, Convention Center
12:15 PM to 1:15 PM	Town Hall: National Strategy for Transportation Data	Room 608, Convention Center
12:15 PM to 1:15 PM	Town Hall: Atmospheric Rivers – A Discussion of the Definition for the Glossary of Meteorology	Room 604, Convention Center
3:30 PM to 5:00 PM	Financial Weather Climate Risk Management	Pacific Room, Sheraton

¹ All times are Pacific Standard Time (PST)

Tuesday through Wednesday	Event	Location
See Conference Schedule	Fifth Symposium on the Weather, Water, and Climate Enterprise	Rooms vary between Yakima 1 and 606, Convention Center
Tuesday, 24 January	Event	Location
7:00 AM to 8:30 AM	NNoN – Network of Networks Committee	Leschi Room, Sheraton Seattle
8:00 AM to 9:30 AM	WRC – Water Resources Committee	Redwood B Room, Sheraton Seattle
9:00 AM to 11:45 AM	Second Symposium of US-International Partnerships	Room vary between Yakima 2 611, and Skagit 1, Conference Center
12:15 PM to 1:15 PM	BGS – Board on Global Strategies	Medina Room, Sheraton Hotel
12:15 PM to 1:15 PM	Town Hall: US-International Partnerships: Cooperation and Challenges in Atmospheric Research and Operation	Room 607, Convention Center
3:30 PM to 4:30 PM	CES – Committee on Environmental Security	Medina Room, Sheraton, Seattle
4:00 PM to 5:30 PM	ITS/ST Committee	Redwood A, Sheraton, Seattle

Wednesday, 25 January	Event	Location
10:00 AM to 11:00 AM	Ad Hoc Committee on RF Allocations	Issaquah B Room, Sheraton Seattle Hotel
11:30 AM to 2:00 PM	C6 – Ad Hoc Committee on Climate and Climate Change Consulting Certification	Medina Room, Sheraton Seattle
12:00 PM to 2:00 PM	REC- Renewable Energy Committee	Issaquah Room, Sheraton Seattle Hotel
12:00 PM to 1:00 PM	BEED – Board on Enterprise Economic Development	Greenwood Room, Sheraton Seattle
2:00 PM to 3:00 PM	Ad Hoc Committee on Space Weather Certification	Room 309, Convention Center
2:30 to 4:00 PM	ICWWCS – International Committee on Weather, Water, and Climate Strategies	Greenwood Room, Sheraton Seattle
4:00 to 5:30 PM	Panel Session: Developing a Comprehensive Climate Information System	620, Convention Center

Thursday, 26 January	Event	Location
10:00 AM to 4:00 PM	NWS Partners Meeting	Redwood Room, Sheraton Hotel
12:15 PM to 1:15 PM	Side Panel Discussion: Challenges, Opportunities and Trends in Digital Weather Journalism	Room 620, Convention Center